

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 63-270057

(43)Date of publication of application : 08.11.1988

(51)Int.Cl.

A61L 2/20

(21)Application number : 62-104834

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(22)Date of filing : 30.04.1987

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(54) STERILIZING APPARATUS USING CORONA DISCHARGE

(57)Abstract:

PURPOSE: To provide a sterilizing apparatus not leaving harmful gas in an article to be sterilized, by filling a hermetically closed sterilizing tank with starting gas such as oxygen gas and subsequently generating corona discharge in the sterilizing tank.

CONSTITUTION: Starting gas 21 is humidified by a humidifier 28 to be sent to a sterilizing tank 25 as a humidified gas 22.

The temp. in the sterilizing tank 25 is regulated by a heater 29 so as to optimize sterilizing effect. An electrode device 27 for generating an active species such as ozone is provided in the sterilizing tank 25 and high voltage is supplied to the electrode device 27 from a high voltage power source device 26 to generate corona discharge and an active species such as ozone is formed to sterilize the object to be sterilized in the

sterilizing tank 25. After sterilization is finished, the waste ozone- containing gas 23 flows in an ozone decomposing device 30 to decompose ozone and made harmless to be discharged as a purified waste gas 24 containing no ozone.

